



## YEAR 2- Teacher Introduction

The Primary Australian Literacy Mathematics & Science (PALMS) Program aims to enrich and support the teaching of earth science from Kindergarten to Year 5 across Australia. This will be achieved by providing, within the mandated Earth and Space Science curriculum, hands-on activities integrating aspects of Chemical Sciences, Physical Sciences and Biological Sciences as well as relevant components of English, Mathematics and other subjects into teaching packages.

These teaching packages will be made available at [www.palms.edu.au](http://www.palms.edu.au).

**Earth's resources, including water, can be used in a variety of ways.**

Activities marked **PPP** (PALMS PARENT POWER) are ones you may wish to send home with the students to do with their parents or by themselves. They replay the concepts recently covered in Science. Studies demonstrate that if a student describes what they have learned to another, they deepen their own understanding and retain it longer.

Topic No.	Topic	Activities	Student Worksheet	Subjects	Page No.
1	Resources	Essential Resources	X	Science + English	1 + 3





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Topic No.	Topic	Activities	Student Worksheet	Subjects	Page No.
2	Water (Above ground)	Making Rain	X	Science	6 + 11
		Water Always Flows Downhill	X	Science	7 + 11
		Rainwater Collectors	X	Science	8 + 13
		Collecting Rainfall		Science, Mathematics & Geography	10
	Water (Under-ground)	Water Level		Science	14 + 21
		Moving water	X	Science	15 + 21
		Groundwater supplies	X	Science & Geography	16 + 22
		Recharge	X	Science - Critical thinking	19 + 23
	Water (Transfer to point of use)	Gravity Feed		Science	24
		Height Increases Water Pressure/Rate of Flow	X	Science	27 + 30
	Height Affects Water Flow	X	Science & Mathematics	28 + 31	





## YEAR 2- Teacher Introduction

Topic No.	Topic	Activities	Student Worksheet	Subjects	Page No.
2	Water Treatment (Small Scale)	Springs, Wells Dams and Bores	X	Science & History	33 + 37
		Settling and Decanting Water	X	Science	34 + 38
		Testing Water From Different Sources		Science	36
	Water Treatment (Large Scale)	Sand Filtering		Science	39
		Filtering Water		Science	40
	Precious water	Essential Water	X	Science & Health	42 + 48
		Worth its Weight in Gold	X	Science, Mathematics & History	43 + 49
		A Young Bush Hero		History	46
	Saving Water	Saving School Water		Science	51
PPP - Water Saving at Home		X	Science & Mathematics	53	





## YEAR 2- Teacher Introduction

Topic No.	Topic	Activities	Student Worksheet	Subjects	Page No.
2	Water (Aboriginal Perspective)	A Sign for Water	X	Science, History, & English	54 + 59
		Petroglyph Design	X	English	57 + 60
		Way to Water		Geography & Art	58
3	Soils (Introduction)	Soil Recipe		Science	62
		Senses and Soils	X	Science & English	65 + 68
		What Do We Use Soils For?	X	Science & English	66 + 69
	Soils (Humus)	Humus in Soils	X	Science & Mathematics	70 + 73
	Soils (and Worms)	Willie the Worm	X	Science & Drama	74 + 80
		Worm Farm (option)		Science	75
	Soils	Save Our Soil Poster	X	Science & English & Art	84 + 85
		Fishbone	X	Science	86 + 87
		PPP - Good Soil and Bad Soil	X	Science	88





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Topic No.	Topic	Activities	Student Worksheet	Subjects	Page No.
4	Clean Air	Dust in Air		Science	90
		Pollution and Lung Problems		Health	91
		Dust in the Air	X	Science & Health	92 + 96
		Smoking Signs	X	Science & Health	95 + 97
5	Minerals	Everyday Uses		Science	98

### Australian Curriculum Earth & Space Science

Earth's resources, including water, can be used in a variety of ways.

#### Elaborations

- Identifying the Earth's resources including water, soil and minerals, and describing how they are used in school.
- Describing how a resource such as water is transferred from its source to its point of use.
- Considering what might happen to humans if there were a change in a familiar available resource, such as water
- Identifying actions at school such as turning off dripping taps, can conserve resources

#### Major concepts also included

Being, becoming, belonging  
Critical thinking





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### **Maths**

Number sequences. Fractions (halves, quarters & eighths, Compare & order shapes & objects. Collect, check & classify data. Interpret simple maps of familiar locations. Gather & check data.

### **History**

Pose questions using past sources  
Impact of changing technology

### **Drama**

Students involved in creative play through a structured activity. Explore characters through stories.

### **Geography**

Connections - Where did it come from & how did it get here? Connections of people in Australia to other places in Australia, to countries in the Asian region and across the world.

